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File: DWPI

May 18, 1990

DERWENT-ACC-NO: 1990-197508

DERWENT-WEEK: 199730

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TITLE: Magnetic disk with improved protection layer - comprising phosphorus-doped silicon film and carbonaceous film

PATENT-ASSIGNEE:

ASSIGNEE CODE NEC CORP NIDE

PRIORITY-DATA: 1988JP-0281322 (November 9, 1988)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC

JP 02130721 A May 18, 1990 000

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APPLICATION-DATA:

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JP 02130721A November 9, 1988 1988JP-0281322 JP 2623785B2 November 9, 1988 1988JP-0281322

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ABSTRACTED-PUB-NO: JP 02130721A

 ${\tt BASIC-ABSTRACT:}$

The protection film comprises a P-doped silicon coating film formed on the magnetic disc substrate and a hard carboneous carbon film contg. H, Si and F formed on the silicon film.

ADVANTAGE - The protection film has improved abrasion resistance, lubricity and adhesion with the recording medium.

In an example, magnetic disc is prepd. by plating Co-NI-P alloy magnetic film on an Al alloy substrate. 80 Angstrom thick P-doped silicon film is formed on it by magnetron sputtering. 100-1000 Angstrom thick carboneous protection film is formed by DC glow discharge plasma gas phase synthesis (several 100 V, 0.1-1 mA/sq.cm.) for 5 minutes, introducing CH4 gas diluted to 1-5 vol.% by H2, silane gas diluted to 2 vol.% by H2, and CF4 gas diluted to 1 vol.% by H2 at 0.1 Torr. @(6pp)@

TITLE-TERMS: MAGNETIC DISC IMPROVE PROTECT LAYER COMPRISE PHOSPHORUS DOPE SILICON FILM CARBONACEOUS FILM

DERWENT-CLASS: LO3 M13 T03

CPI-CODES: L03-B05B; L03-B05K1; M13-E; M13-F; M13-G;

EPI-CODES: T03-A01B5; T03-A01C1; T03-N01;

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